(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1818 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

ATGATGAGAG	CACGGTTCCC	ATTACTGTTG	CTGGGACTTG	TTTTCCTGGC	TTCAGTTTCT	60
GTCTCATTTG	GCATTGCTTA	CTGGGAAAAA	GAGAACCCCA	AACACAACAA	GTGTCTCCAG	120
AGTTGCAATA	GCGAGAGAGA	CTCGTACAGG	AACCAAGCAT	GCCACGCTCG	TTGCAACCTC	180
CTTAAGGTGG	AGAAAGAAGA	ATGTGAAGAA	GGTGAAATTC	CACGACCACG	ACCACGACCA	240
CAACACCCGG	AGAGGGAACC	TCAGCAACCC	GGTGAGAAGG	AGGAAGACGA	AGATGAGCAA	300
CCACGTCCAA	TCCCATTCCC	ACGCCCACAA	CCTCGTCAAG	AAGAAGAGCA	CGAGCAGAGA	360
GAGGAACAGG	AATGGCCTCG	CAAGGAGGAA	AAACGCGGAG	AAAAGGGAAG	TGAAGAGGAA	420
GATGAGGATG	AGGATGAGGA	ACAAGATGAA	CGTCAATTCC	CATTCCCACG	CCCACCTCAT	480
CAGAAGGAAG	AGCGAAACGA	AGAGGAAGAT	GAGGATGAGG	AGCAGCAGCG	AGAGAGCGAA	540
GAAAGTGAAG	ATTCTGAGTT	ACGAAGACAT	AAGAATAAGA	ACCCTTTTCT	CTTCGGCTCT	600
AACAGGTTCG	AAACTCTCTT	CAAAAACCAA	TATGGTCGCA	TTCGCGTCCT	CCAGAGGTTC	660
AACCAACGCT	CCCCACAACT	TCAGAATCTC	CGAGACTACC	GCATTTTGGA	GTTCAACTCC	720
AAACCCAACA	CCCTCCTTCT	CCCCAACCAT	GCTGACGCTG	ATTACCTCAT	CGTTATCCTT	780
AACGGGACTG	CCATTCTTTC	CTTGGTGAAC	AACGACGACA	GAGACTCCTA	CAGACTTCAA	840
TCTGGTGATG	CCCTGAGAGT	CCCCTCAGGA	ACCACATACT	ATGTGGTCAA	CCCTGACAAC	900
AACGAAAATC	TCAGATTAAT	AACACTCGCC	ATACCCGTTA	ACAAGCCTGG	TAGATTTGAG	960
AGTTTCTTCC	TATCTAGCAC	TGAAGCTCAA	CAATCCTACT	TGCAAGGATT	CAGCAGGAAC	1020
ATTTTAGAGG	CCTCCTACGA	TACCAAATTC	GAGGAGATAA	ACAAGGTTCT	GTTTAGTAGA	1080
GAGGAAGGGC	AGCAGCAAGG	GGAGCAGAGG	CTGCAAGAGA	GCGTGATTGT	GGAAATCTCG	1140
AAGGAACAGA	TTCGGGCACT	GAGCAAACGT	GCCAAATCTA	GTTCAAGGAA	AACCATTTCT	1200
TCTGAAGATA	AACCTTTTAA	CTTGAGAAGC	CGCGACCCCA	TCTACTCCAA	CAAGCTTGGC	1260
AAGTTCTTTG	AGATCACCCC	AGAGAAAAAC	CCCCAGCTTC	GGGACTTGGA	TATCTTCCTC	1320
AGTATTGTGG	ATATGAACGA	GGGAGCTCTT	CTTCTACCAC	ACTTCAATTC	AAAGGCGATA	1380

GTGATACTGG TAATTAATGA AGGAGATGCA AACATTGAAC TTGTTGGCCT AAAAGAACAA 1440
CAACAGGAGC AGCAACAGGA AGAGCAACCT TTGGAAGTGC GGAAATATAG AGCCGAATTG 1500
TCTGAACAAG ATATATTTGT AATCCCAGCA GGTTATCCAG TTGTGGTCAA CGCTACCTCA 1560
AATCTGAATT TCTTTGCTAT TGGTATTAAT GCCGAGAACA ACCAGAGGAA CTTCCTCGCA 1620
GGTTCGCAAG ACAATGTGAT AAGCCAGATA CCTAGTCAAG TGCAGGAGCT TGCATTCCCT 1680
GGGTCTGCAC AAGCTGTTGA GAAGCTATTA AAGAACCAAA GAGAATCCTA CTTTGTGGAT 1740
GCTCAGCCTA AGAAGAAAGA GGAGGGGAAT AAGGGAAGAA AGGGTCCTTT GTCTTCAATT 1800
TTGAGGGCTT TTTACTGA

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1920 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

ATGATGAGAG CGCGGTTCCC ATTACTGTTG CTGGGAGTTG TTTTCCTAGC ATCAGTTTCT 60 GTCTCATTTG GCATTGCGTA TTGGGAAAAG CAGAACCCCA GTCACAACAA GTGCCTCCGA 120 AGTTGCAATA GCGAGAAAGA CTCCTACAGG AACCAAGCAT GCCACGCTCG TTGCAACCTC 180 CTTAAGGTGG AGGAAGAAGA AGAATGCGAA GAAGGTCAAA TTCCACGACC ACGACCACAA 240 CACCCGGAGA GGGAACGTCA GCAACACGGT GAGAAGGAGG AAGACGAAGG TGAGCAGCCA 300 CGTCCATTCC CATTCCCACG CCCACGCCAA CCTCATCAAG AGGAAGAGCA CGAGCAGAAG 360 GAGGAACACG AATGGCATCG CAAGGAGGAA AAACACGGAG GAAAGGGAAG TGAAGAGGAA CAAGATGAAC GTGAACACCC ACGCCCACAC CAACCTCATC AAAAGGAAGA GGAAAAGCAC 480 540 CAAGACGAGG ATGAGGAGCA AGACAAAGAG AGCCAAGAAA GTGAAGGTTC TGAGTCTCAA 600 AGAGAACCAC GAAGACATAA GAATAAGAAC CCTTTTCACT TCAACTCTAA AAGGTTCCAA 660 ACTCTCTTCA AAAACCAATA TGGCCACGTT CGCGTCCTCC AGAGGTTCAA CAAACGCTCC 720 CAACAGCTTC AGAATCTCCG AGACTACCGC ATTTTGGAGT TCAACTCCAA ACCCAACACC 780 CTTCTTCTCC CCCACCATGC TGACGCTGAT TACCTCATCG TTATCCTTAA CGGGACTGCC 840 ATTCTTACCT TGGTGAACAA CGACGACCGA GACTCTTACA ACCTTCAATC TGGCGATGCC 900 CTAAGAGTCC CTGCAGGAAC CACATTCTAT GTGGTTAACC CTGACAACGA CGAGAATCTC 960 AGAATGATAG CAGGAACCAC ATTCTATGTG GTTAACCCTG ACAACGACGA GAATCTCAGA 1020 ATGATAACAC TCGCCATACC CGTTAACAAA CCCGGTAGAT TTGAGAGTTT CTTCCTATCT AGCACTCAAG CTCAACAGTC CTACTTGCAA GGGTTCAGCA AGAATATTCT AGAGGCCTCA 1140 TACGACACCA AATTCGAGGA GATAAACAAG GTTCTGTTTG GTAGAGAGGA GGGGCAGCAA CAAGGGGAGG AGAGGCTGCA AGAGAGTGTG ATTGTGGAAA TCTCAAAGAA ACAAATTCGG 1260 GAACTGAGCA AACATGCCAA ATCTAGTTCA AGGAAAACCA TTTCTTCTGA AGATAAACCT TTCAACTTGG GAAGCCGCGA CCCCATCTAT TCCAACAAGC TTGGCAAGTT GTTTGAGATT 1380 ACCCAGAGAA ACCCTCAGCT TCGGGACTTG GATGTCTTCC TCAGTGTTGT GGATATGAAC 1440 GAGGGAGCTC TTTTTCTACC ACACTTCAAT TCAAAGGCCA TAGTGGTACT AGTGATTAAT 1500 GAAGGAGAAG CAAACATTGA ACTTGTTGGC ATTAAAGAAC AACAACAGAG GCAGCAACAG 1560 GAAGAGCAAC CTTTGGAAGT GCGGAAATAT AGAGCTGAAT TGTCTGAACA AGATATATTT 1620 GTAATCCCAG CAGGTTATCC AGTTATGGTC AACGCTACCT CAGATCTGAA TTTCTTTGCT 1680 TTTGGTATCA ATGCCGAGAA CAACCAGAGG AACTTCCTTG CAGGTTCGAA AGACAATGTG 1740 ATAAGCCAGA TACCTAGTCA AGTGCAGGAG CTTGCGTTCC CTAGGTCTGC AAAAGATATT 1800 GAGAACCTAA TAAAGAGCCA AAGTGAGTCC TACTTTGTGG ATGCTCAGCC TCAGCAGAAA 1860 GAGGAGGGA ACAAGGGAAG AAAGGGTCCT TTGTCTTCAA TTTTGAGGGC TTTTTACTGA 1920

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

ATGATGAGAG TGCGGTTTCC TTTGTTGGTG TTGCTGGGAA CTGTTTTCCT GGCATCAGTT 60

TGTGTCTCAT TAAAGGTGAG AGAGGATGAG AATAACCCTT TCTACTTTAG AAGCTCTAAC 120

AGCTTCCAAA CTCTCTTTGA GAACCAAAAC GTTCGCATTC GTCTCCTCCA GAGATTCAAC 180

AAACGCTCCC CACAACTTGA GAACCTTCGA GACTACCGGA TTGTCCAGTT TCAGTCAAAA 240

CCCAACACAA TCCTTCTCCC CCACCATGCT GACGCCGATT TCCTCCTCTT TGTCCTTAGC 300

GGGAGAGCCA TACTTACCTT GGTGAACAAC GACGACAGAG ACTCCTACAA CCTTCACCCT 360

GGCG.	ATGCCC	AGAGAATCCC	AGCTGGAACC	ACTTACTATT	TGGTTAACCC	TCACGACCAC	420
CAGA	ATCTCA	AAATAATCAA	ACTTGCCATA	CCCGTCAACA	AACCTGGCAG	ATATGATGAT	480
TTCT	TCTTAT	CTAGCACTCA	AGCCCAACAG	TCCTACTTGC	AAGGCTTCAG	CCATAATATT	540
CTAG.	AGACCT	CCTTCCATAG	CGAATTCGAG	GAGATAAACA	GGGTTTTGTT	TGGAGAGGAA	600
GAGG.	AGCAGA	GGCAGCAAGA	GGGAGTGATC	GTGGAACTCT	CAAAGGAACA	AATTCGGCAA	660
CTGA	GCAGAC	GTGCCAAATC	TAGTTCAAGG	AAAACCATTT	CCTCCGAAGA	TGAACCATTC	720
AACT'	TGAGAA	GCCGCAACCC	CATCTATTCC	AACAACTTTG	GAAAGTTCTT	TGAGATCACC	780
CCTG	AGAAAA	ACCCACAGCT	TCGGGACTTG	GATATCTTCC	TCAGTTCTGT	GGATATCAAC	840
GAAG	GAGCTC	TTCTTCTACC	ACACTTCAAT	TCAAAGGCCA	TAGTGATACT	AGTGATTAAT	900
GAAG	GAGATG	CAAACATTGA	ACTTGTTGGC	ATTAAAGAAC	AACAACAGAA	GCAGAAACAG	960
GAAG.	AGGAAC	CTTTGGAAGT	GCAAAGGTAC	AGAGCTGAAT	TGTCTGAAGA	CGATGTATTT	1020
GTAA'	TTCCAG	CAGCTTATCC	ATTTGTCGTC	AACGCTACCT	CAAACCTCAA	TTTCCTTGCT	1080
TTTG	GTATCA	ATGCTGAGAA	CAACCAGAGG	AACTTCCTTG	CAGGCGAGAA	AGACAATGTG	1140
GTAA	GGCAGA	TAGAAAGACA	AGTGCAGGAG	CTTGCGTTCC	CTGGGTCTGC	ACAAGATGTT	1200
GAGA	GGCTAT	TAAAGAAGCA	GAGGGAATCC	TACTTTGTTG	ATGCTCAGCC	TCAGCAGAAG	1260
GAGG.	AGGGGA	GTAAGGGAAG	AAAGGGTCCT	TTTCCTTCAA	TCTTAGGTGC	TCTCTACTGA	1320

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 base pairs

 - (B) TYPE: nucleic acid(C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CGTACCATGG TGAGAGCGCG GTTCC

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(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:5:		
CGGTACCGAA TTGAAGTGTG GTAG			
(2) INFOR	MATION FOR SEQ ID NO:6:		
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: DNA (genomic)		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:6:		
TCGTCCATGG	AGCGCGGTTC CCATTAC	27	
(2) INFOR	MATION FOR SEQ ID NO:7:		
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: DNA (genomic)		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:7:		
TCTCGGTCGT	CGTTGTT	17	
(2) INFOR	MATION FOR SEQ ID NO:8:		
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: DNA (genomic)		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:8:		
ACGGTACCGA '	TGAGAGCGCG GTTCC	25	
(2) INFOR	MATION FOR SEQ ID NO:9:		
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: DNA (genomic)		

(2)	INFORMATIO	ON FOR SEQ ID NO:10:	
	(A (B (C	QUENCE CHARACTERISTICS:) LENGTH: 17 base pairs) TYPE: nucleic acid) STRANDEDNESS: single) TOPOLOGY: linear	
	(ii) MO	LECULE TYPE: DNA (genomic)	
	(xi) SE	QUENCE DESCRIPTION: SEQ ID NO:10:	
CGGGT	TATGGC GAGT	GTT	17
(2)	INFORMATI(ON FOR SEQ ID NO:11:	
	(A (B (C	QUENCE CHARACTERISTICS:) LENGTH: 1488 base pairs) TYPE: nucleic acid) STRANDEDNESS: single) TOPOLOGY: linear	
	(ii) MO	LECULE TYPE: cDNA	
	(xi) SE	QUENCE DESCRIPTION: SEQ ID NO:11:	
ATGGCCAAGC	TAGTTTTTC	CCTTTGTTTT CTGCTTTTCA GTGGCTGCTG CTTCGCTTTC	60
AGTTCCAGAG	AGCAGCCTCA	GCAAAACGAG TGCCAGATCC AAAAACTCAA TGCCCTCAAA	120
CCGGATAACC	GTATAGAGTC	AGAAGGAGGG CTCATTGAGA CATGGAACCC TAACAACAAG	180
CCATTCCAGT	GTGCCGGTGT	TGCCCTCTCT CGCTGCACCC TCAACCGCAA CGCCCTTCGT	240
AGACCTTCCT	ACACCAACGG	TCCCCAGGAA ATCTACATCC AACAAGGTAA GGGTATTTTT	300
GGCATGATAT	ACCCGGGTTG	TCCTAGCACA TTTGAAGAGC CTCAACAACC TCAACAAAGA	360
GGACAAAGCA	GCAGACCACA	AGACCGTCAC CAGAAGATCT ATAACTTCAG AGAGGGTGAT	420
TTGATCGCAG	TGCCTACTGG	TGTTGCATGG TGGATGTACA ACAATGAAGA CACTCCTGTT	480
GTTGCCGTTT	CTATTATTGA	CACCAACAGC TTGGAGAACC AGCTCGACCA GATGCCTAGG	540
AGATTCTATC	TTGCTGGGAA	CCAAGAGCAA GAGTTTCTAA AATATCAGCA AGAGCAAGGA	600
GGTCATCAAA	GCCAGAAAGG	AAAGCATCAG CAAGAAGAAG AAAACGAAGG AGGCAGCATA	660
TTGAGTGGCT	TCACCCTGGA	ATTCTTGGAA CATGCATTCA GCGTGGACAA GCAGATAGCG	720
AAAAACCTAC	AAGGAGAGAA	CGAAGGGAA GACAAGGAG CCATTGTGAC AGTGAAAGGA	780
GGTCTGAGCG	TGATAAAACC	ACCCACGGAC GAGCAGCAAC AAAGACCCCA GGAAGAGGAA	840

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

27

AACCCATGGT CAGTAAAAAG CCCTCAA

GAAGAAGAAG AGGATGAGAA GCCACAGTGC AAGGGTAAAG ACAAACACTG CCAACGCCCC 900 CGAGGAAGCC AAAGCAAAAG CAGAAGAAAT GGCATTGACG AGACCATATG CACCATGAGA 960 CTTCGCCACA ACATTGGCCA GACTTCATCA CCTGACATCT ACAACCCTCA AGCCGGTAGC 1020 GTCACAACCG CCACCAGCCT TGACTTCCCA GCCCTCTCGT GGCTCAGACT CAGTGCTGAG 1080 TTTGGATCTC TCCGCAAGAA TGCAATGTTC GTGCCACACT ACAACCTGAA CGCGAACAGC ATAATATACG CATTGAATGG ACGGGCATTG ATACAAGTGG TGAATTGCAA CGGTGAGAGA 1200 GTGTTTGATG GAGAGCTGCA AGAGGGACGG GTGCTGATCG TGCCACAAAA CTTTGTGGTG 1260 GCTGCAAGAT CACAGAGTGA CAACTTCGAG TATGTGTCAT TCAAGACCAA TGATACACCC 1320 ATGATCGGCA CTCTTGCAGG GGCAAACTCA TTGTTGAACG CATTACCAGA GGAAGTGATT 1380 CAGCACACTT TCAACCTAAA AAGCCAGCAG GCCAGGCAGA TAAAGAACAA CAACCCTTTC 1440 AAGTTCCTGG TTCCACCTCA GGAGTCTCAG AAGAGAGCTG TGGCTTAG 1488

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1458 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

ATGGCCAAGC TTGTTCTTTC CCTTTGTTTC CTTCTTTTCA GTGGCTGCTT CGCTCTGAGA 60 GAGCAGGCAC AGCAAAATGA GTGCCAGATC CAAAAGCTGA ATGCCCTCAA ACCGGATAAC CGTATAGAGT CGGAAGGTGG GTTCATTGAG ACATGGAACC CTAACAACAA GCCATTCCAG 180 TGTGCCGGTG TTGCCCTCTC TCGCTGCACC CTTAACCGCA ATGCCCTTCG TAGACCTTCC TACACCAACG GTCCCCAGGA AATCTACATA CAACAAGGTA ATGGTATTTT TGGCATGATA 300 TTCCCGGGTT GTCCTAGCAC TTATCAAGAG CCGCAAGAAT CTCAGCAACG AGGACGAAGC CAGAGGCCCC AAGACCGTCA CCAAAAGGTA CATCGCTTCA GAGAGGGTGA TTTGATCGCA 420 GTGCCTACTG GTGTTGCATG GTGGATGTAC AACAATGAAG ACACTCCTGT TGTTGCCGTT 480 TCTATTATTG ACACCAACAG CTTGGAGAAC CAGCTCGACC AGATGCCTAG GAGATTCTAT 540 CTTGCTGGGA ACCAAGAGCA AGAGTTTCTA AAATATCAGC AGCAGCAGCA AGGAGGTTCC 600 CAAAGCCAGA AAGGAAAGCA ACAAGAAGAA GAAAACGAAG GAAGCAACAT ATTGAGTGGC 660 TTCGCCCCTG AATTCTTGAA AGAAGCGTTC GGCGTGAACA TGCAGATAGT GAGAAACCTA 720 CAAGGTGAGA ACGAAGAGGA GGATAGTGGA GCCATTGTGA CAGTGAAAGG AGGTCTAAGA 780 GTCACAGCTC CAGCCATGAG GAAGCCACAG CAAGAAGAAG ATGATGATGA TGAGGAAGAG 840 CAGCCACAGT GCGTGGAGAC AGACAAAGGT TGCCAACGCC AAAGCAAAAG GAGCAGAAAT 900 GGCATTGATG AGACCATTTG CACAATGAGA CTTCGCCAAA ACATTGGTCA GAATTCATCA 960 CCTGACATCT ACAACCCTCA AGCTGGTAGC ATCACAACCG CCACCAGCCT TGACTTCCCA 1020 GCCCTCTGGC TTCTCAAACT CAGTGCCCAG TATGGATCAC TCCGCAAGAA TGCTATGTTC 1080 GTGCCACACT ACACCCTGAA CGCGAACAGC ATAATATACG CATTGAATGG GCGGGCATTG 1140 GTACAAGTGG TGAATTGCAA TGGTGAGAGA GTGTTTGATG GAGAGCTGCA AGAGGGAGGG 1200 GTGCTGATCG TTCCACAAAA CTTTGCGGTG GCTGCAAAAT CCCAGAGCGA TAACTTTGAG 1260 TATGTGTCAT TCAAGACCAA TGATAGACCC TCGATCGGAA ACCTTGCAGG GGCAAACTCA TTGTTGAACG CATTGCCAGA GGAAGTGATT CAGCACACTT TTAACCTAAA GAGCCAGCAG 1380 GCCAGGCAGG TGAAGAACAA CAACCCTTTC AGCTTCCTTG TTCCACCTCA GGAGTCTCAG 1440 AGGAGAGCTG TGGCTTAG 1458

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1446 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

ATGGCTAAGC TTGTTCTTTC CCTTTGTTTT CTGCTTTTCA GTGGCTGCTG CTTCGCTTTC 60 AGTTTCAGAG AGCAGCCACA GCAAAACGAG TGCCAGATCC AACGCCTCAA TGCCCTAAAA CCGGATAACC GTATAGAGTC AGAAGGTGGC TTCATTGAGA CATGGAACCC TAACAACAAG 180 CCATTCCAGT GTGCCGGTGT TGCCCTCTCT CGCTGCACCC TCAACCGCAA CGCCCTTCGC AGACCTTCCT ACACCAACGC TCCCCAGGAG ATCTACATCC AACAAGGTAG TGGTATTTTT 300 GGCATGATAT TCCCGGGTTG TCCTAGCACA TTTGAAGAGC CTCAACAAAA AGGACAAAGC 360 AGCAGGCCCC AAGACCGTCA CCAGAAGATC TATCACTTCA GAGAGGGTGA TTTGATTGCA 420 GTGCCAACCG GTTTTGCATA CTGGATGTAC AACAATGAAG ACACTCCTGT TGTTGCCGTT 480 TCTCTTATTG ACACCAACAG CTTCCAGAAC CAGCTCGACC AGATGCCTAG GAGATTCTAT 540 CTTGCTGGGA ACCAAGAGCA AGAGTTTCTA CAGTATCAGC CACAGAAGCA GCAAGGAGGT 600 ACTCAAAGCC AGAAAGGAAA GCGTCAGCAA GAAGAAGAAA ACGAAGGAGG CAGCATATTG 660 AGTGGCTTCG CCCCGGAATT CTTGGAACAT GCGTTCGTCG TGGACAGGCA GATAGTGAGA 720 AAGCTACAAG GTGAGAACGA AGAGGAAGAG AAGGGTGCCA TTGTGACAGT GAAAGGAGGT 780 CTCAGCGTGA TAAGCCCACC CACGGAAGAG CAGCAACAAA GACCCGAGGA AGAGGAGAAG 840 CCAGATTGTG ACGAGAAAGA CAAACATTGC CAAAGCCAAA GCAGAAATGG CATTGACGAG 900 ACCATTIGCA CAATGAGACT TCGCCACAAC ATTGGCCAGA CTTCATCACC TGACATCTTC 960 AACCCTCAAG CTGGTAGCAT CACAACCGCT ACCAGCCTCG ACTTCCCAGC CCTCTCGTGG 1020 CTCAAACTCA GTGCCCAGTT TGGATCACTC CGCAAGAATG CTATGTTCGT GCCACACTAC 1080 AACCTGAACG CAAACAGCAT AATATACGCA TTGAATGGAC GGGCATTGGT ACAAGTGGTG 1140 AATTGCAATG GTGAGAGAGT GTTTGATGGA GAGCTGCAAG AGGGACAGGT GTTAATTGTG 1200 CCACAAAACT TTGCGGTGGC TGCAAGATCA CAGAGCGACA ACTTCGAGTA TGTTTCATTC 1260 AAGACCAATG ATAGACCCTC GATCGGCAAC CTTGCAGGTG CAAACTCATT GTTGAACGCA 1320 TTGCCGGAGG AAGTGATTCA GCAAACTTTT AACCTAAGGA GGCAGCAGGC CAGGCAGGTC 1380 AAGAACAACA ACCCTTTCAG CTTCCTGGTT CCACCTAAGG AGTCTCAGAG GAGAGTTGTG 1440 GCTTAG 1446

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1689 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

ATGGGGAAGC CCTTCACTCT CTCTCTTCT TCCCTTTGCT TGCTACTCTT GTCGAGTGCA 60

TGCTTTGCTA TTAGCTCCAG CAAGCTCAAC GAGTGCCAAC TCAACAACCT CAACGCGTTG 120

GAACCCGACC ACCGCGTTGA GTTCGAAGGT GGTTTGATTC AAACATGGAA CTCTCAACAC 180

CCTGAGCTGA AATGCGCCGG TGTCACTGTT TCCAAACTCA CCCTCAACCG CAATGGCCTC 240

CACTTGCCAT CTTACTCACC TTATCCCCGG ATGATCATCA TCGCCCAAGG GAAAGGAGCA 300

CTGCAGTGCA AGCCAGGATG TCCTGAGACG TTTGAGGAGC CACAAGAACA ATCAAACAGA 360

AGAGGCTCAA GGTCGCAGAA GCAGCAGCTA CAGGACAGTC ACCAGAAGAT TCGTCACTTC 420

AATGAAGGAG ACGTACTCGT GATTCCTCCT GGTGTTCCTT ACTGGACCTA TAACACTGGC 480

GATGAACCAG TTGTTGCCAT CAGTCTTCTT GACACCTCTA ACTTCAATAA CCAGCTTGAT 540 CAAACCCCTA GGGTATTTTA CCTTGCTGGG AACCCAGATA TAGAGTACCC AGAGACCATG 600 CAACAACAAC AACAGCAGAA AAGTCATGGT GGACGCAAGC AGGGGCAACA CCAGCAGGAG 660 GAAGAGGAAG AAGGTGGCAG CGTGCTCAGT GGCTTCAGCA AACACTTCTT GGCACAATCC 720 TTCAACACCA ACGAGGACAT AGCTGAGAAA CTTCAGTCTC CAGACGACGA AAGGAAGCAG 780 ATCGTGACAG TGGAAGGAGG TCTCAGCGTT ATCAGCCCCA AGTGGCAAGA ACAACAAGAT 840 GAAGATGAAG ATGAAGACGA AGATGATGAA GATGAACAAA TTCCCTCTCA CCCTCCTCGC 900 CGACCAAGCC ATGGAAAGCG TGAACAAGAC GAGGACGAGG ACGAAGATGA AGATAAACCT 960 CGTCCTAGTC GACCAGCCA AGGAAAGCGT GAACAAGACC AGGACCAGGA CGAGGACGAA 1020 GATGAAGATG AAGATCAACC TCGCAAGAGC CGCGAATGGA GATCGAAAAA GACACAACCC 1080 AGAAGACCTA GACAAGAAGA ACCACGTGAA AGAGGATGCG AGACAAGAAA CGGGGTTGAG 1140 GAAAATATCT GCACCTTGAA GCTTCACGAG AACATTGCTC GCCCTTCACG CGCTGACTTC 1200 TACAACCCTA AAGCTGGTCG CATTAGTACC CTCAACAGCC TCACCCTCCC AGCCCTCCGC 1260 CAATTCCAAC TCAGTGCCCA ATATGTTGTC CTCTACAAGA ATGGAATTTA CTCTCCACAT TGGAATCTGA ATGCAAACAG TGTGATCTAT GTGACTCGAG GACAAGGAAA GGTTAGAGTT 1380 GTGAACTGCC AAGGGAATGC AGTGTTCGAC GGTGAGCTTA GGAGGGGACA ATTGCTGGTG 1440 GTACCACAGA ACTTCGTGGT GGCGGAGCAA GCCGGAGAAC AAGGATTCGA ATACATAGTA 1500 TTCAAGACAC ACCACAACGC AGTCACTAGC TACTTGAAGG ATGTGTTTAG GGCAATTCCC 1560 TCAGAGGTTC TTGCCCATTC TTACAACCTT CGACAGAGTC AAGTGTCTGA GCTTAAGTAT 1620 GAAGGAAATT GGGGTCCTTT GGTCAACCCT GAGTCTCAAC AAGGCTCACC CCGTGTTAAA 1680 GTCGCATAA 1689

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1551 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

ATGGGGAAGC CCTTCTCAC TCTCTCTT TCTTCCCTTT GCTTGCTACT CTTGTCGAGT 60
GCATGCTTTG CTATTACCTC CAGCAAGTTC AACGAGTGCC AACTCAACAA CCTCAACGCG 120

TTGGAACCCG ACCACCGCGT TGAGTCCGAA GGTGGTCTTA TTGAAACATG GAACTCTCAA 180 CACCCTGAGC TGCAATGCGC CGGTGTCACT GTTTCCAAAC GCACCCTCAA CCGCAACGGC 240 300 GCAATTGGAT TTGCATTTCC GGGATGTCCC GAGACGTTTG AGAAGCCACA ACAACAATCA 360 AGCAGAAGAG GCTCAAGGTC ACAGCAGCAA CTACAAGACA GTCACCAGAA GATTCGTCAC 420 TTCAATGAAG GAGACGTACT AGTGATTCCT CTTGGTGTTC CTTACTGGAC CTATAACACT 480 GGCGATGAAC CAGTTGTTGC CATCAGTCCT CTTGACACCT CCAACTTCAA CAATCAGCTT 540 GATCAAAACC CCAGAGTATT TTACCTTGCT GGGAACCCAG ATATAGAGCA TCCCGAGACC 600 ATGCAACAAC AGCAGCAGCA GAAGAGTCAT GGTGGACGCA AGCAGGGGCA ACACCGACAG 660 CAGGAGGAAG AAGGTGGCAG TGTGCTCAGT GGCTTCAGCA AACATTTCTT AGCACAATCC 720 TTCAACACCA ACGAGGACAC AGCTGAGAAA CTTCGGTCTC CAGATGACGA AAGGAAGCAG 780 ATCGTGACAG TGGAGGGAGG CCTCAGCGTT ATCAGCCCCA AGTGGCAAGA ACAAGAAGAC 840 GAAGACGAAG ACGAAGACGA AGAATATGGA CGGACGCCCT CTTATCCTCC ACGACGACCA 900 AGCCATGGAA AGCATGAAGA TGACGAGGAC GAGGACGAAG AAGAAGATCA ACCTCGTCCT GATCACCCTC CACAGCGACC AAGCAGGCCC GAACAACAAG AACCACGTGG AAGAGGATGT 1020 CAGACTAGAA ATGGGGTTGA GGAAAATATT TGCACCATGA AGCTTCACGA GAACATTGCT 1080 CGCCCTTCAC GTGCTGACTT CTACAACCCA AAAGCTGGTC GCATTAGCAC CCTCAACAGT 1140 CTCACCCTCC CAGCCCTCCG CCAATTCGGA CTCAGTGCCC AATATGTTGT CCTCTACAGG 1200 AATGGAATTT ACTCTCCAGA TTGGAACTTG AACGCGAACA GTGTGACGAT GACTCGAGGG 1260 AAAGGAAGAG TTAGAGTGGT GAACTGCCAA GGGAATGCAG TGTTCGACGG TGAGCTAAGG 1320 AGGGGACAAT TGCTAGTGGT GCCGCAGAAC CCCGCGGTGG CTGAGCAAGG GGGAGAACAA 1380 GGATTGGAAT ATGTAGTGTT CAAGACACAC CACAACGCCG TGAGCAGCTA CATTAAGGAT 1440 GTGTTTAGGG TAATCCCTTC GGAGGTTCTT TCCAATTCTT ACAACCTTGG CCAGAGTCAA 1500 GTGCGTCAGC TCAAGTATCA AGGAAACTCC GGCCCTTTGG TCAACCCATA A 1551

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:16:			
GCGGCCGCAT GGCCAAGCTA GTTTTTT 2				
(2) INFOR	MATION FOR SEQ ID NO:17:			
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: DNA (genomic)			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:17:			
GCGGCCGCTG	GTGGCGTTTG TGA	23		
(2) INFOR	MATION FOR SEQ ID NO:18:			
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: DNA (genomic)			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:18:			
GCGGCCGCTC	TTCTGAGACT CCT	23		
(2) INFOR	MATION FOR SEQ ID NO:19:			
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: DNA (genomic)			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:19:			
GCGGCCGCAT	GCCCTTCACT CTCT	24		
(2) INFOR	MATION FOR SEQ ID NO:20:			
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: DNA (genomic)			

(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:20:	
GCGGCCGCTG GG	AGGGTGAG GCTGTT	26
(2) INFORMA	TION FOR SEQ ID NO:21:	
	SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) i	MOLECULE TYPE: DNA (genomic)	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:21:	
CCCCCCCCCCC	CCMMCMMC ACAC	2.4